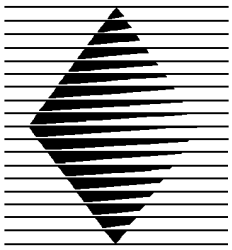


DIAMOND

PRODUCTS

OPERATOR'S MANUAL

CONCRETE SAW

MODEL:

CC7074

Manual # 1801371

Table of Contents

Safety Precautions 1
- Safety Alerts 1
- Proposition 65 1
- Spark Arrester Requirement 1
- Respiratory Hazards 1
- General Safety 2
- Battery and Electrical Safety 2
- Blade Safety 3
- Blade Guard Safety 3
- Fuel Safety 3
- Engine Safety 4
- Cutting Safety 4
- Hydraulic Safety 4
- Belt Safety 4
- Transporting Safety 4

Introducing the CC7074 7
- Controls 7
- Dimensions 9
- Specifications 10

Operating the CC7074 11
- Tie-Downs 11
- Footrest 11
- Weight Bar (Optional) 11
- Spotlight 11
- Handlebars 11
  - Adjusting the Handlebars 11
- Fuel System 12
  - Adding Fuel 12
- Blade Guard 12
  - Installing the Blade Guard 12
  - Removing the Blade Guard 13
- Flange Guard 13
  - Installing the Flange Guard 13
  - Removing the Flange Guard 13
- Diamond Blades 13
  - Inspecting the Blade 13
  - Blade Speed 14
  - Wrench 14
  - Installing the Blade 14
  - Removing the Blade 15
- Engine 15
  - Tasks Prior to Starting the Engine 16
  - Starting the Engine 16
  - Stopping the Engine 16
- Speed Control Lever 16
- Blade Lowering Speed 17
- Water Supply 17
  - Using the Water Supply 17
- Cutting Guides 17
  - Adjusting the Front Pointer 17
  - Adjusting the Rear Pointer(s) 18
- Concrete Cutting 18
  - Helpful Hints Prior to Cutting 18
  - Tasks Prior to Cutting 18
  - Making a Cut 18
  - Making a Cut Using the Blade Depth Stop 19
  - Continuing a Partial-Cut 19
  - Finishing a Cut 19

Maintaining the CC7074 21
- Maintenance Overview 21
  - Daily 21
  - Every 100 Hours 21
  - Every 250 Hours 21
  - Every 500 Hours 21
- Part Lubrication 21
- Water Filter Strainer (Optional) 21
- Speed Control Lever 22
  - Adjusting the Lever Tension 22
  - Adjusting the Spring Plungers 22
- Inner Blade Flange 22
  - Installing the Inner Blade Flange 22
  - Removing the Inner Blade Flange 22
- Drive Alignment 22
  - Drive Alignment 22
- Wheels 22
  - Replacing the Front Wheels 23
  - Replacing the Rear Wheels 23
- Maximum Cutting Depth 23
- Handlebar Cylinder Rod 24
  - Removing the Cylinder Rod 24
  - Connecting the Cylinder Rod 24
- Battery 24
  - Battery Type 25
  - Servicing the Battery 25
- Electrical System 25
- Radiator 25
  - Adding Radiator Fluid 25
  - Changing the Radiator Fluid 26
- Hydraulic System 26
  - Adding Fluid to the Hydraulic Lift Pump 26
  - Adding Hydraulic Fluid to the Reservoir Tank 27
  - Replacing the Hydraulic Oil Filter 27
- Upper Gearbox 27
  - Changing the Upper Gearbox Oil 27
  - Draining the Upper Gearbox Heat Sink 27
- Lower Gearbox 28
  - Changing the Lower Gearbox Fluid 28
  - Cleaning the In-Line Oil Suction Filter 28
- Belt Sheaves 28
  - Removing the Belt Sheaves 28
  - Installing the Belt Sheaves 29
- Blade Drive Belts 29
  - Tensioning/Replacing the Blade Drive Belts 29
- In-Line Fuel Filter 30
- Engine 30
  - Cleaning the Engine 30
- Air Cleaner 31

Restriction Indicator 31
Rubber Dust Ejector Boot 31
Cleaning/Replacing the Outer Primary Filter 31
Replacing the Inner Safety Filter 32
Storing 33
Disposal 33
References 35
Appendix A 35
Serial Tags 35
Appendix B 36
Daily Maintenance Task Chart 36
Appendix C 37
Belt Tension Settings 37
Appendix D 38
Troubleshooting 38
Appendix E 39
Additional Resources 39

Safety Precautions

Operate the CC7074 Concrete Saw and all of its components according to this manual. Failure to comply with and understand the following safety, operation and maintenance instructions can result in serious injuries and/or death. All operators must be properly trained or supervised by experienced personnel prior to using this saw and should understand the risks and hazards involved. Diamond Products discourages improper or unintended saw usage and cannot be held liable for any resulting damages.

Saw modifications should be made by Diamond Products to ensure safety and design. Any modifications made by the owner(s) are not the responsibility of Diamond Products and void all saw warranties if a problem arises as a result of the modification.

Refer to the CC7074 Parts List for additional information and part diagrams. Refer to the engine manual and manufacturer as the primary source for all safety, operations, and maintenance instructions regarding the engine. Prior to operating, record the saw's serial number, and the engine's model and serial numbers in Appendix A.

Notice: The information in this manual may be updated at any time!

Safety Alerts

⚠DANGER
Serious injuries and/or death will occur if these instructions are not followed.

⚠WARNING
Serious injuries and/or death could occur if these instructions are not followed.

⚠CAUTION
Mild and/or moderate injuries could occur if these instructions are not followed.

Proposition 65

⚠WARNING
Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Spark Arrester Requirement

⚠WARNING
In the State of California it is a violation of section 4442 or 4443 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester, as defined in section 4442, maintained in effective, working order or the engine is constructed, equipped, and maintained for the prevention of fire pursuant to section 4443.

Respiratory Hazards

⚠WARNING
Concrete cutting produces dust and fumes known to cause illness, death, cancer, respiratory disease, birth defects, and/or other reproductive harm. Safety protection techniques include, but are not limited to:

- Wearing gloves.
- Wearing safety goggles or a face shield.
- Using approved respirators.
- Washing work clothes daily.
- Using water when wet cutting to minimize dust.
- Washing the hands and face prior to eating/drinking.

For additional safety and self-protection information contact your employer, the Occupational Safety and Health Administration (OSHA), and/or The National Institute for Occupational Safety and Health (NIOSH).

General Safety

- Read and understand all safety, operations, and maintenance instructions provided in this manual prior to operating or servicing the saw.
- Keep saw components clean and free of slurry, concrete dust, and debris.
- Inspect water hoses prior to operating the saw. Clean, repair, or replace damaged components.
- Raise the saw to a proper height for access when working underneath the saw. Use chocks to block the wheels, and fit blocks or jacks under the frame edges.

⚠WARNING – Do NOT work on saw using the hydraulic lift system to keep the saw in the raised position for maintenance or repair. Accidental loss of hydraulic pressure could cause the saw to drop suddenly, causing serious injury or death.

- When using a jack to raise the saw, place the jack against a solid, flat area under the frame base to properly support the saw.
- Repair the saw immediately when a problem arises.
- Replace saw decals if unreadable.
- Dispose of all hazardous waste materials according to city, state, and federal regulations.
- Always have a phone nearby, and locate the nearest fire extinguisher and first aid kit prior to operating the saw.
- Operate the saw wearing flame resistant clothing.
- Always wear safety glasses when removing retaining rings.
- Persons under the statutory age limit should not operate the saw.
- Keep all body parts away from rotating machinery.
- Replace all guards and access panels (unless stated otherwise) prior to operating the saw.
- Always pivot front of blade guard fully to avoid serious injuries.
- DO NOT assume the saw will remain still when in neutral or when parking/stopping the saw on a slope. Chock the wheels to help prevent unnecessary movement.

DO NOT:

- Drop equipment, supplies, tools, etc., when handling to help prevent injuries.
- Lift and carry equipment, supplies, tools, etc., that are too heavy and/or cannot be lifted easily.

DO NOT (cont.):

- Operate the saw without using the appropriate safety equipment required for the work task.

- Operate or service the saw with any clothing, hair, or accessories that can snag in the machinery, which could lead to serious injuries or death!
- Operate the saw using attachments not associated with or recommended for the saw.
- Operate the saw around combustible materials or fumes to prevent fires/explosions.
- Operate the saw with anyone near the work area or within the direct line of the blade.
- Operate the saw until all unnecessary materials have been removed from the work area.
- Operate the saw with loose nuts, screws, and bolts.
- Operate the saw when ill or fatigued.
- Operate the saw under the influence of drugs and/or alcohol.
- Operate the saw on steep slopes.
- Cut concrete with guards and access panels removed.
- Grease the saw with the engine running.
- Touch hot components when operating the saw.
- Leave the saw unattended until the engine is off and the blade has stopped spinning.
- Place the saw into storage until it has cooled down.
- Service the saw until it has cooled down.
- Service the saw with the engine running.

Battery and Electrical Safety

- Ignitable explosive gases are emitted from the battery. DO NOT expose the battery to sparks or open flames.

- Keep the area around the battery well-ventilated.
- Keep the battery level when handling it.
- Use protective eyewear or a face shield, and avoid contact with the skin when handling/servicing the battery.
- Use a proper battery tester when testing the battery strength.
- Always be sure to connect the battery cables to the proper terminal when reconnecting the cables.
- Occasionally inspect the battery, cables, clamps, and terminals for damages. Service components as necessary.

- Always keep the battery cable clamps away from the battery terminals when the battery is disconnected to avoid accidental connections while servicing.
- Immediately rinse your clothing, skin, or eyes with water if exposed to battery acid. Seek medical attention immediately!
- Disconnect the battery prior to servicing all saw components (unless stated otherwise).
- Remove the battery when storing the saw for longer periods.
- Always use the correct size fuses (amps) to prevent fires.

Blade Safety

- Always use reinforced abrasive blades or steel-centered diamond blades.
- Never use a wet cutting blade without an adequate water supply to properly lubricate the blade.
- Inspect all blades prior to usage and discard damaged blades.
- DO NOT install or remove a blade with the engine running.
- Keep all body parts away from rotating blades.
- Inspect the blade flanges for damages, wear, and cleanliness. Clean or replace dirty/damaged components immediately.
- DO NOT expose yourself or anyone else to the direct line of the blade when operating the saw.

- Always use an appropriate size blade and the correct blade type based on the cutting task and the type of material being cut.
- The blade must always fit snug on the blade shaft, outer flange, and/or inner flange.
- Wear gloves and be alert to the surrounding environment when handling blades.
- When installing the blade, always point the arrow printed on the blade in the direction of the blade shaft's rotation.
- DO NOT exceed the blade's maximum recommended speed when cutting. Excessive blade speeds can cause blade breakage, resulting in serious injuries and/or death!
- DO NOT use damaged blades when cutting to avoid harming yourself, others, or the saw.
- DO NOT use a blade for cutting that requires a lower speed than the blade shaft speed.
- Always tighten the blade shaft bolt/screw as directed to properly secure the outer flange and blade. Failure to properly secure the outer flange and blade may cause parts to loosen or fall off the saw, resulting in serious injuries or death!
- Let the blade cool prior to removal when dry cutting (applicable models).

Blade Guard Safety

- DO NOT operate the saw with the blade guard raised or removed.
- Blade exposure should not exceed 180° while cutting.
- When pivoting the front of the blade guard, raise/lower it cautiously and slowly to avoid serious injuries.
- DO NOT pivot the blade guard front up or down when installing/removing very large blades. Attempting to pivot the front of a heavy guard when the guard is positioned higher up for blade installation/removal makes the guard difficult to lift and/or lower. In this situation, install/remove the blade guard front instead of pivoting it.
- Always pivot the front of the blade guard 180° (fully upward) so the guard does not swing down unexpectedly, causing serious injuries.

- Always secure the pivoted section of the blade guard using the detent pin (guards 26" and up).
- Use extreme caution when installing/removing parts of a guard or the entire guard as guards can be extremely heavy and may require installation/removal at moderate heights.
- DO NOT install or remove the blade guard with the engine running.
- Always use a blade guard that corresponds with the blade size.
- Inspect the blade guard and water tubes prior to starting the saw. Clean or replace dirty/damaged components immediately.

Fuel Safety

- Always use caution when refueling.
- Store all fuel in appropriate safety containers.
- DO NOT operate the saw with a fuel leak.
- DO NOT fuel the saw with the engine running.
- Let the engine cool prior to adding fuel.
- Refer to the engine manual for recommended fuels.
- Always use appropriate fuels in cold weather.
- Move the saw away from the refueling area prior to starting the engine.
- DO NOT smoke or expose fuel to open flames when filling the fuel tank or working with fuel.

- Clean up any spilled fuel prior to starting the engine.

- Drain the fuel tank and fuel lines when storing the saw for longer periods of time. Refer to the engine manual for additional recommendations.

Engine Safety

- Refer to the engine manual as the primary source for engine safety.
- Always know how to turn off the engine quickly for emergency purposes.
- Make sure the saw is in neutral when starting the engine.
- Fill the fuel tank and check the oil level prior to starting the engine.

- Keep all body parts away from rotating saw parts with the engine running.

- DO NOT start the engine without the air filter(s) installed.
- DO NOT allow dust to enter the air intake tube when cleaning/replacing air filter(s).
- Replace damaged components immediately that may allow dust to enter the engine.
- DO NOT leave the engine running unattended.

- Always operate the saw in well-ventilated areas. Concentrated engine exhaust can cause loss of consciousness and/or death.

- DO NOT touch the engine/muffler assembly with the engine running, and always let them cool down prior to touching or servicing the saw.
- Handle hot oil carefully when changing the oil.
- Let the engine cool prior to removing pressurized caps (applicable models).
- DO NOT use any starter substances or starter fluids (e.g., starter fluid sprayed into the air filter) when starting the engine using a glow plug (applicable models). These materials are extremely flammable and explosive, and can melt parts or possibly explode when used to help start the engine.

Cutting Safety

- The direct work area should not contain buried or embedded electrical, gas, or water lines that could be damaged and/or cause personal injury while cutting.
- Turn off all electricity, gas, and water around the direct work area prior to cutting.
- DO NOT expose yourself or anyone else to the direct line of the blade when operating the saw.
- DO NOT allow any person, animal, and/or objects in and around the work area while cutting.

Hydraulic Safety

- Turn off the engine prior to servicing hydraulic components.
- Lower the saw completely prior to servicing to decrease the hydraulic pressure in the lines.
- Always make sure any hydraulic components being serviced are not supporting the weight of other saw components. If a particular component is under pressure when connection points are loosened, oil may spray out forcefully.

- Always place a piece of cardboard or paper up against hydraulic components, or use a leak detection fluid to check for hydraulic fluid leaks. Keep all body parts away from leaks and/or areas that may eject hydraulic fluid. Pressurized hydraulic fluid can penetrate the skin, causing serious injuries. Seek medical attention immediately!

Belt Safety

- Turn off the engine and let the belts cool down prior to servicing them.
- Regularly inspect the belts for fraying, stress cracks, and/or breakage and replace immediately when damaged. Always check the belt alignment prior to operating the saw.
- Use extreme caution when working with belts and rotating machine parts to avoid entanglement.
- Over-tensioning belts may reduce the life of the gearbox bearings. Under-tensioning belts may cause slippage, shorter belt life, and/or poor saw performance.
- Squealing belts indicate looseness.
- DO NOT use old and new belts together on the same sheave.

Transporting Safety

- Remove the blade prior to transporting the saw.
- Make sure the truck/trailer is in good, working condition and sufficient to transport the load. DO NOT tow the saw behind a vehicle.
- Close the fuel shutoff valve (applicable models) when transporting.
- Drain the fuel tank when transporting long distances.
- Use heavy-duty ramps that will support the weight of the saw and yourself when loading or unloading.
- Raise the saw to avoid damaging components while moving up and down ramps.

Transporting Safety (cont.)

- Use extreme caution when guiding the saw up and down ramps. Slowly drive the saw forward down the ramp. Slowly back the saw in reverse up the ramp. Avoid standing directly downhill from the saw to prevent machine rollover.

- Place the saw in neutral and turn off the engine once the saw is loaded in the truck/trailer.
- Chock the wheels and secure the saw in the truck/trailer prior to transporting.
- Refer to the Department of Transportation (DOT) for additional transportation recommendations.

Lifting Safety

- Move yourself and all others away from the lifting area when hoisting the saw to prevent being crushed.

- Secure the appropriate hoisting cables, straps, and/or chains to the saw's designated lift points prior to hoisting.
- Never use the tie-down brackets (applicable models) to lift the saw.
- DO NOT attempt to lift the saw irresponsibly and/or improperly.

Introducing the CC7074

Controls

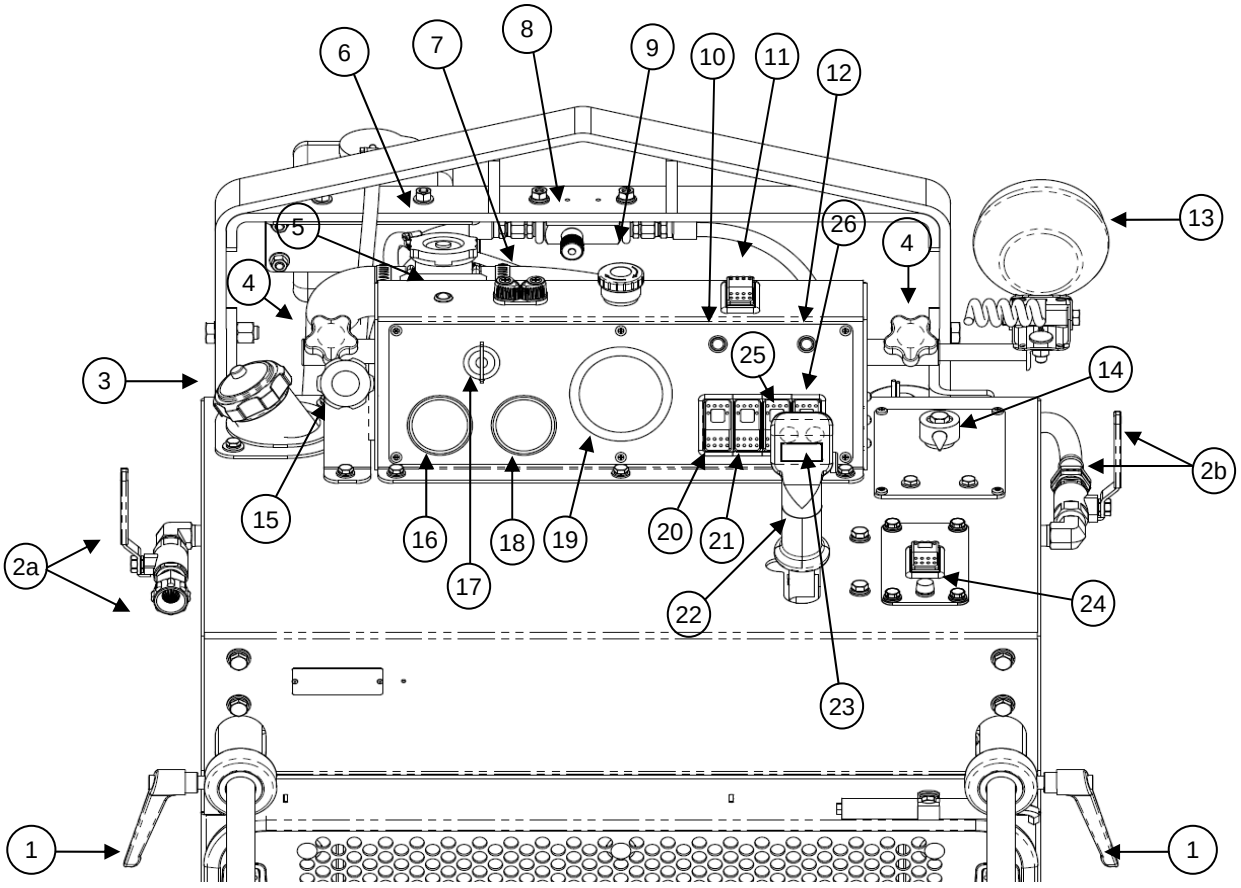


Figure 1: CC7074 Controls

1. **Handlebar Lock Lever**–Locks handlebar in position.
   2a. **Water Valve and Hose Fitting**–(LH side) - Lever controls water flow rate; hose fitting connects to water source hose.
   2b**. Water Valve and Hose Fitting**–(RH side)- Lever controls water flow to blade guard; hose fitting connects to water supply hose.
3. **Fuel Tank Cap**–Fill port; indicates fuel level.
4. **Spotlight Bar Lock Knob**–Locks spotlight bar in position.
5. **Blade Gearbox Temperature Light**–Indicates high oil temperature in blade gearbox.
6. **Radiator Cap**–Fill port when adding or changing radiator fluid.
7. **Cable Cleat**–Secures front pointer rope.
8. **Blade Lowering Speed Valve**–Adjusts saw's lowering speed.
9. **Emergency Stop Button**–Stops the engine.
10. **Low Blade Water Light**–Indicates low water pressure to blade.
11. **Blade Depth Stop Switch**–Sets and resets blade depth setting.
12. **Blade Depth Set Light**–Indicates blade depth is set.
13. **Spotlight**–Light source.

14. **Cutting Depth Indicator**–Indicates blade's depth from surface.
15. **Vernier Throttle**–Increases or decreases engine speed.
16. **Coolant Temperature Gauge**–Indicates engine coolant temperature. *Note: Check the cooling system when the coolant temperature light turns on, or when the coolant temperature gauge passes the red mark*.
17. **Ignition Switch**–Four-position switch activates the glow plug, stops the engine, provides power to certain accessories, or starts the engine.
18. **Engine Warning Light Gauge**–Indicates high coolant temperature, low oil pressure, low battery voltage, and an energized glow plug.
19. **Blade Tachometer/Hour Meter**–Indicates blade speed and total number of saw hours operated.
20. **Auto Water Switch**–Activates automatic water system. Water turns on/off when depth indicator enters *Auto Water On/Off Zone*.
21. **Free Wheel Switch**–Allows operator to move saw forward/backward (with ignition switch at *Run*).
22. **Speed Control Lever**–Forward, stop (neutral), and reverse control.
23. **Control Grip**–Two pushbuttons on front of grip raise or lower the saw and blade. Pushbutton on side of grip tilts handlebars, allowing them to be moved up or down to desired position.
24. **Blade Clutch Switch (optional)**–Allows operator to engage or disengage blade rotation.
25. **Spotlight Switch**–Activates spotlight.
26. **Water Pump Switch (optional)**–Activates water pump.

Dimensions

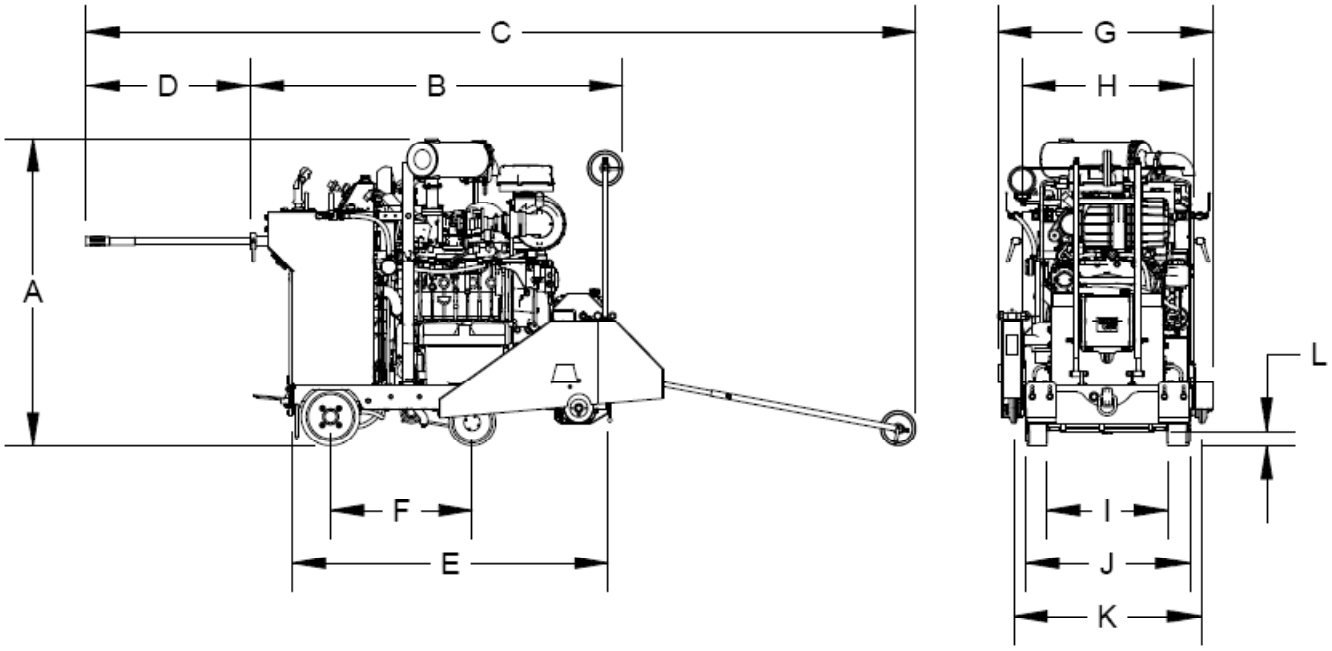


Figure 2: CC7074 Dimensions

Table 1: CC7074 Dimensions		Inches	Millimeters
A	Saw height	52-1/2"	1334 mm
B	Minimum Saw Length	63-1/2"	1613 mm
C	Maximum Saw Length	140"	3556 mm
D	Maximum Handle Extension	28"	711 mm
E	Frame Length	53-3/4"	1365 mm
F	Wheel Base Length	24-1/4"	616 mm
G	Saw Width	36-1/2"	927 mm
H	Frame Width	29"	737 mm
I	Front wheels - Inside Width	20-1/2"	520 mm
J	Rear wheels - Outside Width	27-3/4"	705 mm
K	Inner Flange to Inner Flange Width	31-3/4"	806 mm
L1	Ground Clearance when level	2-1/2"	63 mm
L2	Ground Clearance when raised	1-3/4"	44 mm
	maximum height - blade shaft(not shown)	26"	660 mm
	Crated dimensions (L x W x H) - 70" x 44" x 59"		

Specifications

Table 1: CC7074 Specifications	
Maximum Cutting Depth	19-3/4” with 48” blade
Blade Shaft Diameter	2”
Arbor Diameter	1” with single drive pin
Blade Shaft Bearings	Multiple ball bearings in oil bath
Blade Shaft Drive	20 V-belts (four power bands)
Blade Mounting	Right or left
Blade Raise/Lower	Electro-hydraulic pump
Blade Coolant	Dual multi-spray tubes
Blade Guard Attachment	Slip-on through 30”, bolt-on 36” and up
Handlebars	Length and tilt adjustable
Drive Speed	0-250 ft/min
Front Wheels	8” x 3”
Rear Wheels	10” x 3”
Transmission	Hydro pump powering dual wheel motors
Uncrated Weight *(add 125 lb for crated weight)*	2,000-2,225 lb *(weight depends on model and added options)*

Table 2: Engine Specifications	
Manufacturer	Kubota
Model	V3307-DI-T-E3-B
Maximum Horsepower (HP)	74.3 HP @ 2,600 RPM
Fuel Capacity	Nine gallons
Fuel Type	Low sulfur/ultra-low sulfur diesel fuel
Air Filter	Four-stage with restriction indicator
Power at Blade Shaft	70 HP
Note: Refer to the engine manual and manufacturer for additional engine information and specifications.	

Operating the CC7074

For additional information and detailed diagrams on individual saw components, refer to the CC7074 Parts List in conjunction with this manual.

Tie-Downs

Use the tie-downs (one at the back and one at the front end of the saw) when securing the saw in a truck/trailer for transportation. DO NOT over-tighten a chain/rope to the front end tie-down, which may bend the frame and damage the saw.

Footrest

Use the footrest, if desired, to add body weight to the rear of the saw and improve the rear wheel traction when cutting.

Figure 3: Footrest

Weight Bar (Optional)

The weight bar (optional) adds 55 lb to the saw to improve the rear wheel traction when cutting. *Note: The weight bar is a standard feature on the 48" blade saw*.

1. Attach the second footrest to the back of the frame base using the screws, washers, and lock nuts provided.
2. Rest the weight bar on top of both footrests.
3. Place a flat washer onto both screws. Fit the screws through the screw holes on top of the weight bar and through the slot on both footrests.
4. Place a fender washer onto each screw underneath the footrest and secure with a lock nut.
5. Remove the weight bar as necessary.

Spotlight

1. Loosen both spotlight bar lock knobs and slide the spotlight bar from side-to-side to adjust the length of the bar.
2. Tighten the lock knobs to secure.
3. Turn the spotlight switch on or off as needed for additional lighting.

Handlebars

The handlebars help to guide and maneuver the saw. Place the handlebars in the desired position for better leverage when lifting and steering. To maneuver the saw forward or backward, turn on the *Free Wheel* switch and move the saw as desired (the free wheel component only works with the ignition key at *Run*).

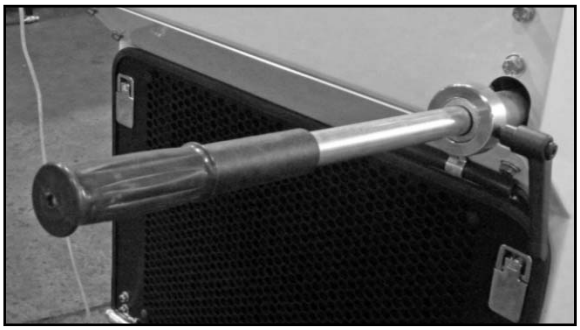


Figure 4: Handlebar

Adjusting the Handlebars

1. Loosen the handlebar adjusting lever.
2. Move the handlebar forward or backward to adjust the length and retighten the adjusting lever to secure.
3. Press the *Tilt Handlebar* pushbutton and move the handlebar up or down to adjust the angle. *Note: The button only works with the ignition key at the Run position.*
4. To reposition adjustment lever, pull out and move to desired lever position.

Control Grip Pushbuttons

The control grip pushbuttons only work with the ignition key at *Run* or with the engine running.

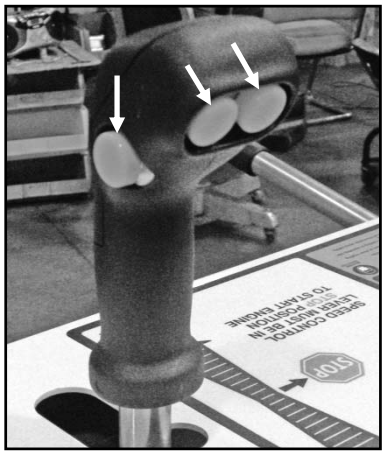


Figure 5: Control Grip Pushbuttons

1. Press the *Raise* (left) pushbutton to raise the saw and blade, and release to stop. *Note: Always raise the blade when maneuvering the saw to provide proper clearance between the blade and the ground.*
2. Press the *Lower* (right) pushbutton to lower the saw and blade, and release to stop.
3. Press the *Tilt Handlebar* pushbutton and move the handlebar up or down to adjust the angle.

Fuel System

⚠WARNING

- Always use caution when refueling.
- DO NOT operate the saw with a fuel leak.
- DO NOT fuel the saw with the engine running.
- DO NOT smoke or expose fuel to open flames when filling the fuel tank or working with fuel.

⚠CAUTION

- Clean up any spilled fuel prior to starting the engine.
- Fuel may seep out from the fuel cap vent (applicable models) when raising the saw if the fuel tank is overfilled.

Adding Fuel

1. Lower the saw to level the frame.
2. Turn off the engine and let the saw cool down.
3. Remove the fuel tank cap.
4. Fill the fuel tank with low sulfur or ultra-low sulfur diesel fuel. DO NOT overfill the tank for expansion purposes. Refer to the engine manual for information on appropriate diesel fuels in normal and cold weather temperatures.
5. Replace the fuel tank cap and secure.

Blade Guard

⚠WARNING

- DO NOT operate the saw with the blade guard raised or removed.
- DO NOT remove the blade guard with the engine running.
- Blade exposure should not exceed 180° while cutting.
- Always pivot the front of the blade guard 180° (fully upward) so the guard does not swing down unexpectedly, which may cause serious injuries.

- Always secure the pivoted section of the blade guard using the detent pin (guards 26” and up).
- When pivoting the front of the blade guard, raise/lower it cautiously and slowly to avoid serious injuries.

The blade guard shields the blade and must always be in place when operating the saw. Blade guards generally stay in place at all times, except for when changing to another guard size or when using the guard on the opposite side of the saw. Regularly inspect the blade guard and water tubes. Clean, repair, or replace dirty or damaged components immediately. *Note: Always use a guard size that matches the blade size. Refer to the parts list for additional information*.

Installing the Blade Guard

Always install the blade guard with the blade off the saw.

1. Holding the blade guard handle, face the front of the blade guard forward and fit the tapered mount on the side of the guard onto the tapered mount on the frame.

Figure 6: Frame Base Mount

Figure 7: Flange Guard Installed

2. Insert the lock pin through the hole on the tapered frame mount to secure the guard.
3. For guards 36” and up, raise the saw slightly. Place a lock washer and then a flat washer onto the blade guard screw. Fit the screw through the slot near the back of the guard and through the hole on the frame base, and secure the guard to the frame using the provided wrench.
4. Connect the water supply hose to the blade guard.

Removing the Blade Guard

Always remove the blade guard with the blade off the saw.

1. Disconnect the water supply hose from the blade guard.
2. For guards 36” and up, raise the saw slightly. Remove the screw from the frame base and blade guard.
3. Remove the lock pin from the tapered frame mount.
4. Use the handle on the blade guard to rock the guard back and forth while lifting the guard off the tapered frame mount.

Flange Guard

Install the flange guard over the blade flange that is not in use.

Installing the Flange Guard

1. Fit the tapered mount on the back of the flange guard onto the tapered mount on the frame.
2. Insert the lock pin through the hole on the tapered frame mount to secure the guard.

Removing the Flange Guard

1. Remove the lock pin from the tapered frame mount.
2. Remove the flange guard from the tapered frame mount.

Diamond Blades

⚠WARNING

- DO NOT exceed the blade’s maximum recommended speed when cutting. Excessive blade speeds can cause blade breakage, resulting in serious injuries and/or death.
- DO NOT use damaged blades when cutting to avoid harming yourself, others, or the saw.

Using the proper blade (size and type) preserves the blade and improves efficiency, resulting in lower costs. Refer to the Association of Equipment Manufacturers (AEM) safety brochure for diamond blades and www.diamondproducts.com for additional blade information.

Inspecting the Blade

Inspect each blade prior to installation and discard all damaged blades. Inspect the blades for:

- Cracks, nicks, and dents
- A damaged/deformed arbor (center hole)
- Darkness/discoloration near edge of blade
- A deformed blade circumference
- Segment loss/cracks
- Core wear
- Bending
- Uneven side-widths

Blade Speed

Refer to the CC7074 RPM Chart, the blade, or the blade packaging information for the recommended blade speeds when cutting. DO NOT exceed the maximum recommended blade speed. DO NOT use a blade for cutting that requires a lower speed than the minimum blade shaft speed.

Wrench

Use the wrench provided when installing or removing a blade. Apply force to the opposite end of the wrench and tighten the blade shaft bolt/screw to 125 ft-lb (170 Nm) minimum to secure the outer flange and blade. *Note: 125 ft-lb is equivalent to applying 125 pounds at the end of a 12" wrench.*

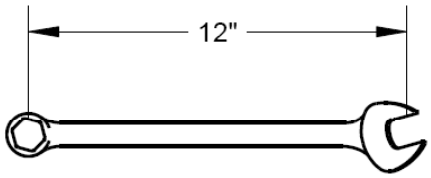


Figure 8: Wrench

Installing the Blade

⚠WARNING

- DO NOT install a blade with the engine running.
- Failure to properly secure the outer flange and blade may cause parts to loosen or fall off the saw, resulting in serious injuries or death!
- DO NOT pivot the front of the blade guard up or down when installing very large blades. Attempting to pivot the front of a heavy guard when the guard is positioned higher up for blade installation makes the guard difficult to lift and/or lower. In this situation, remove the blade guard front instead of pivoting it.
- Always secure the pivoted section of the blade guard using the detent pin (guards 26" and up).

⚠CAUTION

- Wear gloves and be alert to the surrounding environment when handling blades.

The blade can be installed on the right or left side of the saw. Install the blade on the side preferred or most appropriate for the cutting task.

1. Select a blade size and type. Remember to check the blade for damages and discard as necessary. *Note: If changing the blade size, adjust and/or change all necessary saw components according to the information in the CC7074 Parts List*.
2. Remove the detent pin (guards 26" and up) from the guard hinge and pivot the front of the blade guard 180° (fully upward) to gain access to the blade flanges. For larger, heavier guards that are positioned too high up and are unsafe to pivot, remove the lock nut and screw from the center of the guard hinge. Remove the front of the guard. *Note: Have a second trained operator hold the guard in place while removing the hinge screw and nut*.

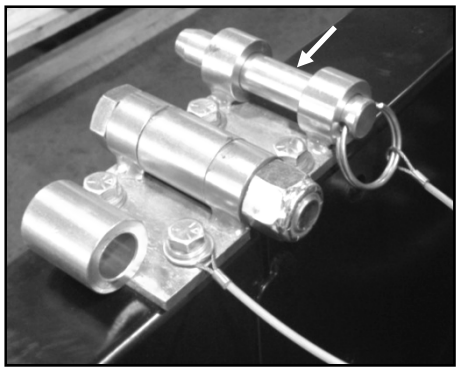


Figure 9: Detent Pin

3. On the pivoted guards, insert the detent pin through the interlocking barrels on the top of the guard to secure the front of the guard. *Note: Failure to fully pivot and secure the front of the guard may cause serious injuries*.
4. Remove the blade shaft bolt. Note: clockwise loosens on right side, counterclockwise loosens on left side (when viewed from the operating position) using the provided wrench.
5. Carefully remove the outer flange. Inspect the flange assembly and clean or replace dirty/damaged components.
6. Place the blade against the inner flange. For large blades, carefully roll the blade up to the inner flange. Adjust the height of the saw to align the flange and blade arbor. *Note: Point the arrow printed on the blade in the direction of the blade shaft's rotation*.
7. Align and fit the outer flange and flange pin through the blade and into the inner flange and blade shaft. *Note: The outer flange should fit snug with the blade, inner flange, and blade shaft*.
8. Slightly rotate the outer flange and blade backward to eliminate backlash (looseness) between parts.

9. Place the lock washer and then the flat washer onto the blade shaft screw and insert the screw into the blade shaft through the center of the outer flange.
10. Tighten the screw by hand. Slowly lower the saw, if necessary, until the blade just touches the ground.
11. Tighten the screw again, using the wrench, to 125 ft-lb (170 Nm) minimum to secure the outer flange and blade.
12. Remove the detent pin (guards 26” and up) from the guard hinge and pivot the front of the guard down over the blade to secure.
13. If replacing the front of the guard, fit the front and back of the blade guard together. Place the screw through the center of the guard hinge and tighten the lock nut to the other end of the hinge screw to secure the guard together. *Note: Have a second trained operator hold the guard in place while replacing the hinge screw and nut*.

Removing the Blade

⚠CAUTION

- DO NOT remove a blade with the engine running.
- DO NOT pivot the front of the blade guard up or down when removing very large blades. Attempting to pivot the front of a heavy guard when the guard is positioned higher up for blade removal makes the guard difficult to lift and/or lower. In this situation, remove the blade guard front instead of pivoting it.
- Always secure the pivoted section of the blade guard using the detent pin (guards 26” and up).

1. Remove the detent pin (guards 26” and up) from the guard hinge and pivot the front of the blade guard 180° (fully upward) to gain access to the blade. For larger, heavier guards that are positioned too high up and are unsafe to pivot, remove the lock nut and screw from the center of the guard hinge. Remove the front of the guard. *Note: Have a second trained operator hold the guard in place while removing the hinge screw and nut*.
2. On the pivoted guards, insert the detent pin through the interlocking barrels on the top of the guard to secure the front of the guard. *Note: Failure to fully pivot and secure the front of the guard may cause serious injuries*.
3. Slowly lower the saw, if necessary, until the blade just touches the ground.
4. Remove the blade shaft screw using the wrench.
5. Carefully remove the outer flange and blade. Place the blade in an appropriate storage location. *Note: If the outer flange is difficult to remove, tighten a setscrew into two of the holes on the outer flange to help separate the outer flange from the blade*.
6. Inspect the flange assembly and clean or replace dirty/damaged components.
7. Carefully fit the outer flange back into the inner flange and/or blade shaft.
8. Place the lock washer and then the flat washer onto the blade shaft screw and insert the screw into the blade shaft through the center of the outer flange.
9. Retighten the blade shaft screw to secure the flanges.
10. Remove the detent pin (guards 26” and up) from the guard hinge and pivot the front of the guard down over the blade flanges to secure.
11. If replacing the front of the guard, fit the front and back of the blade guard together. Place the screw through the center of the guard hinge and tighten the lock nut to the other end of the hinge screw to secure the guard together. *Note: Have a second trained operator hold the guard in place while replacing the hinge screw and nut*.

Engine

⚠WARNING

- Operate the saw in well-ventilated areas. Concentrated engine exhaust can cause loss of consciousness and/or death.
- DO NOT touch the engine/muffler with the engine running, and always let them cool down prior to touching or servicing the saw.
- DO NOT leave the saw unattended while the engine is running.

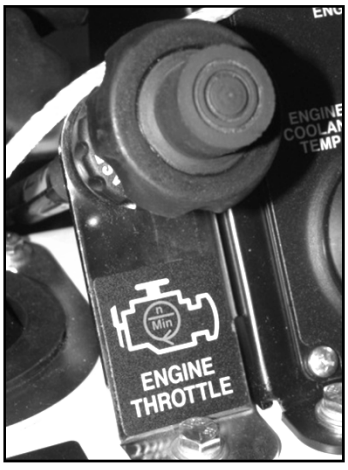


Figure 10: Vernier Throttle

Vernier Throttle Operation

1. Turn the *Hold/Release* knob counterclockwise to loosen the knob.
2. Turn the throttle counterclockwise to increase the engine/blade speed, or push in the throttle's spring-loaded tip and pull the throttle out to increase the engine/blade speed. Turn the throttle clockwise to decrease the engine/blade speed, or push in the throttle's spring-loaded tip and push the throttle in to decrease the engine/blade speed.
3. Turn the *Hold/Release* knob clockwise to tighten the knob and secure the engine/blade speed.

Tasks Prior to Starting the Engine

Complete the tasks listed below prior to starting the engine to ensure a safe start:

- Check fluids and fill to appropriate levels.
- Turn off controls and switches.
- Remove tools from area.

The engine **will not** start unless the following tasks are completed:

- Place speed control lever at *Stop*.
- Pull up emergency stop button.
- Close radiator door.

Starting the Engine

Notice: In an emergency, press the emergency stop button to immediately stop the engine and any saw movement!

1. Increase the engine speed to half throttle.
2. Insert the key into the ignition and turn it to *Glow*; hold in this position until glow light turns off, turn the key to *Start* and release when the engine starts. Refer to the chart in the engine manual when using the glow plug in temperatures below 23°F (-5°C). *Note: If the engine does not start within 10 seconds, turn off the key and try again approximately 30 seconds later. Refer to* Appendix D *or the engine manual for troubleshooting recommendations after several failed attempts*.
3. Let the engine warm up. Check all warning lights and turn off the engine immediately if there are any problems prior to operating the saw.

Stopping the Engine

⚠CAUTION

- DO NOT leave the saw unattended until the engine is off and the blade has stopped spinning.

1. Place the speed control lever at *Stop* and raise the blade from the cut.
2. Turn off all controls, switches, and water.
3. Decrease the engine speed to idle for five minutes to cool down the engine after full load operation.
4. Turn the ignition key to *Stop* and remove the key.

Speed Control Lever

The speed control lever moves the saw forward and backward at up to 250 ft/min. *Note: The engine must be running at half throttle or greater to move the saw using the speed control lever*.

Figure 11: Speed Control Lever

1. Slowly push the lever toward *Forward* to move the saw forward and release when at the desired traveling speed.
2. Slowly pull the lever toward *Reverse* to move the saw backward and release when at the desired traveling speed.
3. Place the lever at *Stop* to put the saw in neutral. DO NOT assume at any time that the neutral position will act as a brake when saw is running. *Note: Always start the engine with the speed control lever at Stop*.

Blade Lowering Speed

Turn the *Blade Lowering Speed* valve counterclockwise to increase the blade's lowering speed and clockwise to decrease the blade's lowering speed. *Note: The valve does not adjust the blade's raising speed*.

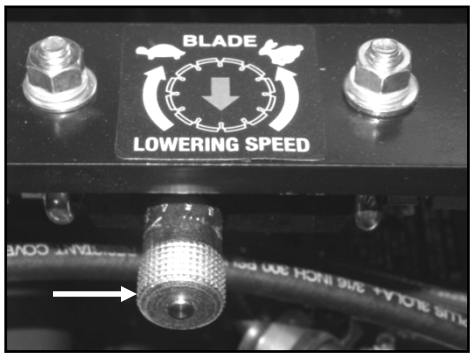


Figure 12: Blade Lowering Speed Valve

Water Supply

The water supply cools the gearbox, blade and minimizes dust when cutting. *Note: Always test the water supply for adequate pressure and flow prior to cutting*.

Using the Water Supply

1. Connect the water source hose to the water valve fitting on the left side of the saw.
2. Connect one end of the water supply hose (60") to fitting on the right side of the saw (fig. 13).

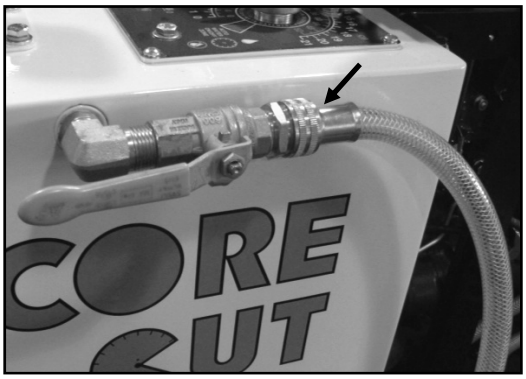


Figure 13: Water Supply Hose

3. Connect the other end of the water supply hose (60") to right side of water solenoid valve located above the upper gearbox.
4. Connect the short water supply hose (32") from the left side of the water solenoid valve to hose fitting at bottom left side of the upper gearbox.
5. Connect water supply hose (54") from the hose fitting at bottom right side of the upper gearbox to the manifold on the blade guard.
6. Move the water valve lever on right side of saw to full open. Increase or decrease water flow by moving the valve lever on the left side of the saw connected to the source hose. *Note: water on/off operation and flow adjustment can be made from either side of saw, if desired.*
7. When finished cutting, shut off water supply to the blade guard, shut off water supply at source and remove source hose from the saw.
8. Drain water from upper gearbox heat sink. (*ref. maintenance instructions: upper gearbox*)

Cutting Guides

Use the cutting guides as needed to help follow the cutting line. Always check the cutting guides for proper alignment with the blade prior to cutting.

Adjusting the Front Pointer

1. Remove the lanyard from the cable cleat.
2. Lower the front pointer frame to the ground.
3. Loosen both front pointer frame screws.
4. Divide an 8–10 ft piece of string in half.
5. Place the looped end of string into a gullet on the backside of the blade.
6. Place one string line up against the backside of the blade and one string line up against the front side of the blade. Holding the string ends in one hand, tension the lines out toward the front pointer rod.

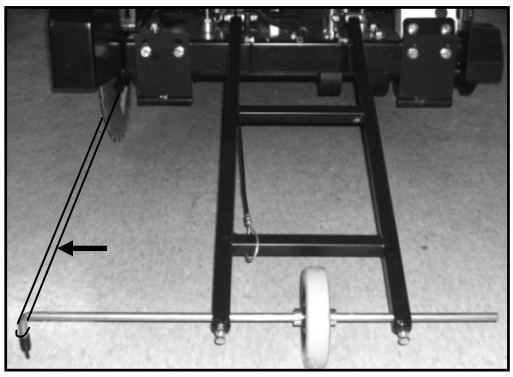


Figure 14: Tensioned String Line

7. Adjust the pointer rod to place the tip between the tensioned string lines.
8. Retighten both front pointer frame screws.
9. Lift the frame off the ground when finished.
10. Tension the lanyard and secure it to the cable cleat.

Adjusting the Rear Pointer(s)

1. Loosen the rear pointer nut and screw on the back of the frame base.
2. Adjust the orientation of the rear pointer rod and retighten the screw and nut to secure.

Concrete Cutting

⚠WARNING

- DO NOT expose yourself or anyone else to the direct line of the blade when operating the saw.
- The direct work area should not contain buried or embedded electrical, gas, or water lines that could be damaged and/or cause personal injury while cutting.

Note: Always raise the blade to provide proper clearance between the blade and the ground when maneuvering the saw.

Helpful Hints Prior to Cutting

Keep the following in mind for better efficiency while cutting:

- Use just enough handle pressure to guide the saw down the cutting line. DO NOT forcibly direct (twist) the saw from side to side when cutting. DO NOT jam, cock, or wedge the blade in a cut.
- Moving too quickly when cutting may stall the saw, or may cause the blade to climb out from the cut. If the saw stalls while cutting, put the saw in neutral and raise the blade from the cut to restart the engine.
- Avoid sawing excessively deep to preserve the blade and reduce sawing costs.
- DO NOT lower the blade too quickly or move the saw forward too quickly when finishing a partial-cut to avoid forcing the blade into the concrete.
- Always have a proper water flow when cutting for maximum blade efficiency. Using too much water when cutting will make the slurry look clear. Not using enough water will make the slurry look thick and pasty.
- Refer to the Diamond Products' Guide for Professional Concrete Cutters for additional cutting tips and information.

Tasks Prior to Cutting

Complete the following tasks prior to cutting:

- Align the cutting guide(s) with the blade.
- Clearly mark the cutting line.
- Turn off all electricity, gas, and water around the direct work area.

Making a Cut

1. Align the blade and cutting guide(s) with the cut line.
2. If the saw is equipped with a clutch (optional), turn on the *Blade Clutch* switch with engine at idle to start the blade rotation.
3. Turn on the water and adjust the water flow.
4. Lower the blade to just above the cutting surface and set the cutting depth indicator at zero (ref. fig. 15).

Figure 15: Cutting Depth Indicator

5. Turn on the *Auto Water* switch if desired for automatic water on/off when cutting. *Note: When the cutting depth indicator enters the Auto Water On/Off Zone the water will turn on/off automatically and will not require the water flow to be reset every time the blade is lowered back into the cut. If the auto water feature is functioning in reverse (water goes off when blade is lowered into cut), rotate depth indicator 360 degrees to reset.*
6. Slowly lower the blade into the surface at the start of the cut line for the initial cut. Make the initial pass across the entire cutting line using the most effective travel speed. If the blade is coming up out of the cut, decrease travel speed and/or feed depth. **DO NOT CUT FULL DEPTH IN ONE PASS**. Always use the step-cut method when cutting for maximum efficiency. For example, when cutting to a depth of ten inches, begin with a two-inch deep maximum initial pass, then a four-inch deep pass, and finish with another four-inch deep pass to complete the cut.
7. Raise the blade out of the cut and reposition the saw at the start of the cut line. DO NOT move backwards with the blade in a previous cut.

8. At the start of the cut line, lower the blade back into the cut and make a second, deeper pass across the entire cutting line.
9. Continue the step-cut process to reach the maximum depth. DO NOT cut any deeper than required.

Making a Cut Using the Blade Depth Stop

1. Align the blade and cutting guide(s) with the cut line.
2. If the saw is equipped with a clutch (optional), turn on the *Blade Clutch* switch with the engine at idle to start the blade rotation.
3. Turn on the water and adjust the water flow.
4. Lower the blade to just above the cutting surface and set the cutting depth indicator at zero.
5. Turn on the *Auto Water* switch if desired for automatic water on/off when cutting.
6. Slowly lower the blade into the surface to the desired cut depth. *Note: Initial cut should be less than 2 inches.*
7. Push the *Blade Depth Stop* button to the "Set Blade Depth" position. The *Blade Depth Set* light will turn on, which means the cutting depth is set.
8. Raise the blade out of the cut and reposition the saw at the start of the cut. DO NOT move backwards with the blade in a previous cut.
9. Push the *Blade Depth Stop* button to the "Override Blade Depth" position and hold it down for approximately three seconds, noting when the *Blade Depth Set* light goes out. Set the cutting depth at a different depth measurement following guidelines in steps 6 & 7.
10. Continue the step-cut process using the depth stop to reach the maximum depth. DO NOT cut any deeper than required.

Continuing a Partial-Cut

1. Maneuver the saw to the desired location.
2. Align the blade with the previous cut and slowly lower the blade back into the concrete. Use extreme caution to make sure the blade is perfectly aligned within the cut. DO NOT continue cutting until the blade is aligned within the cut!
3. Continue the step-cut process (using the blade depth stop if preferred) to reach the maximum depth. DO NOT cut any deeper than required.

Finishing a Cut

1. Place the speed control lever at *Stop*.
2. Raise the blade from the cut (provide proper ground clearance).
3. If the saw is equipped with a clutch (optional), turn off the *Blade Clutch* switch with engine at idle to stop the blade rotation.
4. Turn off the *Auto Water* switch and water supply.

Maintaining the CC7074

Failure to read and comply with the maintenance instructions provided in this manual prior to performing maintenance may result in serious injuries and/or death, and may harm the saw. DO NOT attempt to perform maintenance on the saw if you are not properly trained for it, or are not supervised by an experienced person.

Refer to the CC7074 Parts List for additional information and part diagrams when performing maintenance tasks. Refer to the engine manual and manufacturer as the primary source for all safety, operations, and maintenance instructions for the engine. Contact the saw and/or engine manufacturer with any additional questions.

Remove all necessary guards and access panels prior to servicing the saw. Replace prior to operating.

Maintenance Overview

Complete the following tasks as required. DO NOT delay maintenance! Print the Daily Maintenance Task Chart from Appendix B to help keep track of maintenance tasks completed daily.

Daily

- Inspect the saw for damages and repair.
- Tighten loose nuts, screws, and bolts.
- Check all fluid levels (fuel, engine oil, hydraulic fluid, radiator fluid, upper and lower gearbox oil) and fill as necessary.
- Wipe down and clean all saw components to remove dust, debris, and slurry (especially from fans).
- Inspect all belts for tension and wear. Replace or tension as necessary.
- Clean the air cleaner (see engine manual).
- Check and clean the water filter strainer at water valve fitting.
- Clean the radiator and wipe down the cooling fan.
- Drain the upper gearbox heat sink.
- Look for fluid leaks and check all hoses. Repair all damaged components.

Every 100 Hours

- Lubricate the front axle bearing grease fittings (2).
- Lubricate the hydraulic lift cylinder grease fitting (1).
- Clean the upper and lower gearbox breather vents.
- Change the upper and lower gearbox oil.
- Clean the in-line oil suction filter.

Every 250 Hours

- Change the hydraulic oil filter (replace once after first 50 hours, then as scheduled).
- Change the in-line fuel filter.

Every 500 Hours

- Change the radiator fluid.

Note: Refer to the engine manual and manufacturer for a full list of routine engine maintenance tasks.

Part Lubrication

⚠WARNING

- DO NOT grease parts with the engine running.

Lubricate all necessary parts on schedule for maximum saw efficiency. Occasionally lubricate controls, cables, and linkages with a spray lubricant when movement becomes stiff and/or sluggish. Use one to two full pumps of NLGI No. 2 premium, lithium-based grease when lubricating all grease fittings. *Note: Use more grease on bearing grease fittings if they are too hot to touch after completing work.*

Figure 16: Water Filter Strainer

Water Filter Strainer (Optional)

Inspect the water filter strainer (component included with optional water pump) daily and clean as necessary.

1. Twist off the filter strainer cap.
2. Remove the mesh strainer and rinse out with water. Wipe out the inside of the filter container.

3. Reinsert the mesh strainer and retighten the strainer cap to the filter.

Speed Control Lever

Adjusting the Lever Tension

Adjust the tension felt in the speed control lever, when moving the lever forward and backward, to the desired setting as necessary.

1. Remove front access panel.
2. Remove the grease cap from the pivot housing.
3. Loosen the jam nut on the opposite side of the speed control frame using provided wrench.
4. Use the Allen wrench provided to adjust the shoulder screw.
5. Retighten the jam nut.
6. Move the speed control lever forward and backward to test the lever tension. Readjust the shoulder screw/jam nut if desired.
7. Secure the grease cap to the pivot housing.
8. Replace access panel and retighten.

Adjusting the Spring Plungers

Adjust the spring plungers if the speed control lever feels floppy or loose when moving the lever forward and backward, or when the lever is hard to place into or out of the *Stop* position.

1. Loosen both hex nuts from the speed control tube.
2. Screw the spring plungers slightly out to let the speed control lever move easily into and out of the *Stop* position. Screw the spring plungers slightly in to let the speed control lever move forward and backward firmly in the forward/reverse slot.
3. Retighten both hex nuts to secure.

Inner Blade Flange

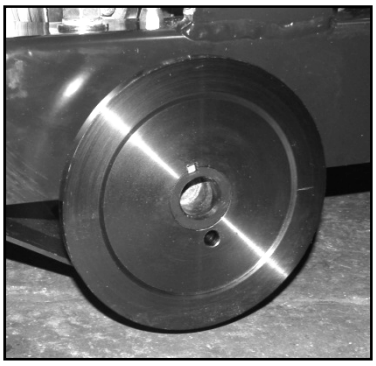


Figure 16: Inner Flange

Installing the Inner Blade Flange

1. Inspect the inner flange for damages. Clean or replace damaged components as necessary.
2. Align the flange with the blade shaft key and place the flange onto the blade shaft.
3. Apply Loctite 262 (red) or an equivalent to the setscrew threads.
4. Tighten the setscrew(s) into the back of the inner flange to secure.

Removing the Inner Blade Flange

1. Remove the setscrew(s) from the back of the inner flange using an Allen wrench.
2. Carefully remove the flange from the blade shaft.

Drive Alignment

Drive Alignment

Adjust the rear axle when the saw's drive alignment is off (saw will not cut in a straight line). *Note: The rear axle does not have to be adjusted for straightness; it can also be adjusted based on the specifications of the cutting job*.

1. Turn the tap bolt clockwise using the provided wrench to adjust the drive alignment toward the right, or counterclockwise to adjust the drive alignment toward the left.

Figure 17: Adjustment Bolt

Wheels

⚠WARNING

- Raise the saw to a proper height for access when working underneath the saw. Use chocks to block the wheels, and fit blocks or jacks under the frame edges at the front and back of the frame.

Figure 189: Front Wheels

Replacing the Front Wheels

Replace the front wheels when they are damaged and/or affecting saw performance.

1. Move the saw to level ground. Use a jack to lift the front wheels off the ground.
2. Remove all four screws from the wheel cover.
3. Pry the wheel cover gasket and wheel cover off the wheel using a screwdriver or pry bar.
4. Remove the screw securing the wheel, and then remove the wheel from the front axle.
5. Place a new wheel onto the front axle.
6. Fit the lock washer and then the flat washer onto the wheel screw and retighten the screw through the center of the wheel to secure.
7. Replace the wheel cover gasket and wheel cover, and retighten all four wheel cover screws to secure.
8. Replace the second front wheel as directed above.
9. Slowly lower the jack and remove the jack stand when the wheels are firmly touching the ground.

Replacing the Rear Wheels

Replace the rear wheels when they are damaged and/or affecting saw performance.

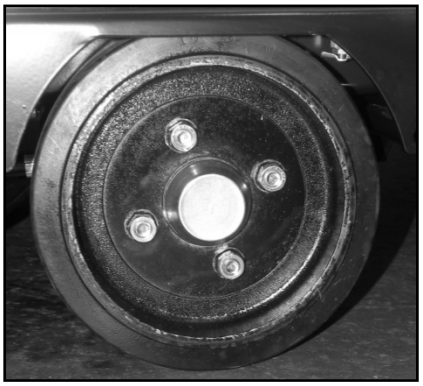


Figure 20: Rear Wheels

1. Move the saw to level ground. Use a jack to lift the rear wheels off the ground.
2. Pry the hubcap off the wheel using a screwdriver or pry bar.
3. Remove all four lug nuts from the wheel.
4. Remove the wheel and place a new wheel onto the wheel hub.
5. Replace the lug nuts and tighten to secure.
6. Replace the hubcap and secure in place using a rubber mallet.
7. Replace the second rear wheel as directed.
8. Slowly lower the jack and remove the jack stand when the wheels are firmly touching the ground.

Maximum Cutting Depth

⚠WARNING

- Raise the saw to a proper height for access when working underneath the saw. Use chocks to block the wheels, and fit blocks or jacks under the frame edges at the front and back of the frame.

Always adjust the maximum cutting depth when changing the blade size, sheave size, flange size, and belt size to avoid damaging saw components. Refer to the CC7074 Parts List for additional information.

1. Raise the saw to gain access to the maximum cutting depth bolts underneath the frame base.
2. Loosen the nut on both bolts.
3. Turn the bolts counterclockwise to decrease the maximum cutting depth, or turn the bolts clockwise to increase the maximum cutting depth. *Note: Both bolts must be the same length when finished*.

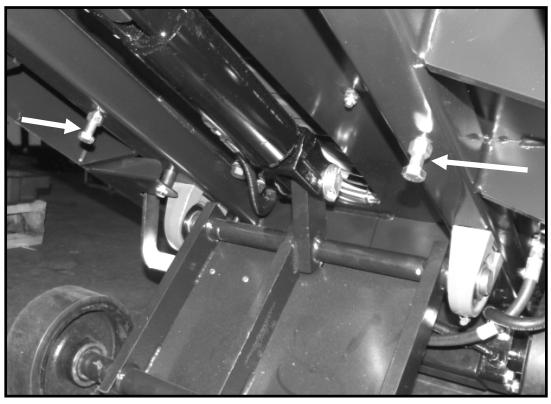


Figure 191: Maximum Depth Bolts

4. Bottom out the nut on each bolt with the frame base to secure the bolts.

5. Remove all tools from the area and lower the saw completely. The blade flanges must be at least 1/4" from the ground to prevent component damage. *Note: Make sure both skid plates on the front of the saw are in the correct set of holes in order to lower the saw completely (refer to CC7074 Parts List)*.
6. Readjust the depth bolts as necessary.

Handlebar Cylinder Rod

The handlebar cylinder rod must be serviced by Diamond Products if the handlebars can be moved up or down in excess amounts when locked in place (movement may feel sluggish). Send the entire assembly to Diamond Products to be recharged or pressurized.

Removing the Cylinder Rod

1. Disconnect the two wires from the solenoid block valve.
2. Remove the hairpin cotter and clevis pin from the cylinder rod end.

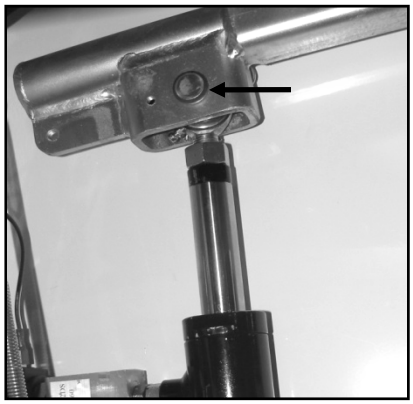


Figure 20: Clevis Pin

3. Holding the cylinder, remove the hairpin cotter and clevis pin from the isolator mount tube.
4. Remove the entire assembly from the saw.

Connecting the Cylinder Rod

1. Fit the cylinder into the cylinder rod end mount and isolator mount tube.
2. Fit the clevis pin through the cylinder rod end mount and cylinder rod end. Secure in place with the hairpin cotter.
3. Fit the second clevis pin through the isolator mount tube and cylinder u-block. Secure in place with the hairpin cotter.

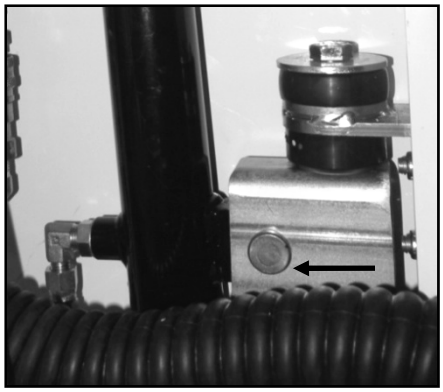


Figure 21: Clevis Pin

4. Connect the two wires to the solenoid block valve according to the wiring diagrams in the CC7074 Parts List.

Battery

⚠WARNING

- Ignitable explosive gases are emitted from the battery. DO NOT expose the battery to sparks or open flames, and keep the area around the battery well-ventilated.

- Disconnect the battery prior to servicing the saw (unless stated otherwise).
- Always keep the battery cable clamps away from the battery terminals when the battery is disconnected to avoid accidental connections while servicing.

- Always be sure to connect the battery cables to the proper terminal when reconnecting.

⚠CAUTION

- Use a proper battery tester when testing the battery strength.
- Use protective eyewear or a face shield and avoid contact with the skin when handling/servicing the battery.

The saw contains a charged battery with one positive cable lead and one negative cable lead.

Figure 22: Battery

Battery Type

12 Volt, Group 24

Servicing the Battery

1. Remove both wing nut/washer assemblies from the battery lid and remove the lid.
2. Remove the hose standoffs and wing nuts from the battery hold-down bracket and remove the bracket.
3. Disconnect the negative cable lead from the negative terminal. *Note: Always disconnect the negative cable first*.
4. Disconnect the positive cable lead from the positive terminal.
5. Carefully remove the battery from the battery box using the carry strap.
6. When replacing the battery, carefully place a new battery into the battery box. Bring the old battery to a recycling facility; many battery retailers also accept old batteries.
7. When cleaning the battery, inspect the terminals, clamps, and cables for damages and corrosion. Clean the terminals and clamps using a wire brush, or use another approved technique for cleaning. Use acid-free, acid-resistant grease to grease the battery clamps and terminals. Carefully place the battery back into the battery box.
8. Reconnect the positive cable lead to the positive battery terminal. *Note: Always reconnect the positive cable first*.
9. Reconnect the negative cable lead to the negative battery terminal.
10. Make sure the j-bolts are hooked onto the eyebolts at the bottom of the battery box. Fit the battery hold-down bracket through the j-bolts and rest the bracket on the battery.
11. Fit a fender washer and then a lock washer onto both j-bolts and retighten the wing nuts to the j-bolts to secure the battery.
12. Fit the hose standoffs onto both j-bolts.
13. Replace the battery lid, fit a fender washer and then a lock washer onto each j-bolt, and retighten both wing nuts to secure the lid.

Electrical System

⚠WARNING

- Disconnect the battery when servicing the electrical system unless stated otherwise.
- Always use the correct size fuses (amps) to prevent fires.

Inspect all fuses if switches or controls are not working properly and replace as necessary. If fuses are failing frequently, determine the cause and repair immediately. Refer to the CC7074 Parts List for electrical diagrams.

Radiator

- Open radiator door, power wash the radiator and wipe down the radiator fan daily.
- Turn off the saw and inspect the cooling system when the coolant temperature light turns on, or when the coolant temperature gauge passes the red mark.
- Adjust the radiator door latches if the door becomes too difficult to latch, or when gaps between the door and the frame allow air flow through the door.

Adding Radiator Fluid

1. Remove the coolant recovery tank cap.
2. Add a 50/50 mix of water and anti-freeze to the tank. *Note: Refer to the Cold Full and Hot Full marks when filling and operating*.

Figure 23: Recovery Tank

3. Replace the coolant recovery tank cap and tighten to secure.

Changing the Radiator Fluid

Change the radiator fluid every 500 hours of operation, or every two years (whichever comes first). DO NOT drain the radiator fluid when hot.

1. Open the radiator door.
2. Place a drain pan under the radiator drain valve.

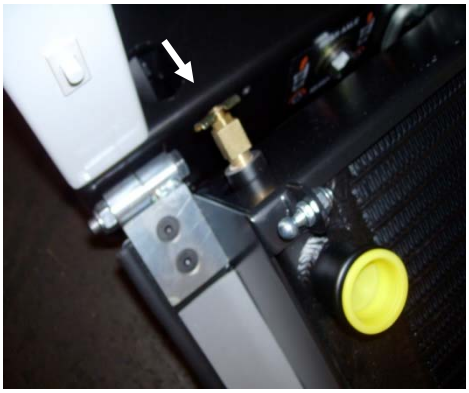


Figure 26: Drain Valve Wing Nut

3. Loosen the drain valve wing nut (below radiator door) and drain the fluid completely. Dispose of the used fluid according to city, state, and federal regulations.
4. Tighten the drain valve wing nut to secure.
5. Open the air bleed valve wing nut (inside radiator door, near top of door). Slowly remove the radiator cap. *Note: Remove the radiator cap only when it feels cool to the touch, and always open it slowly to relieve any built up pressure*.

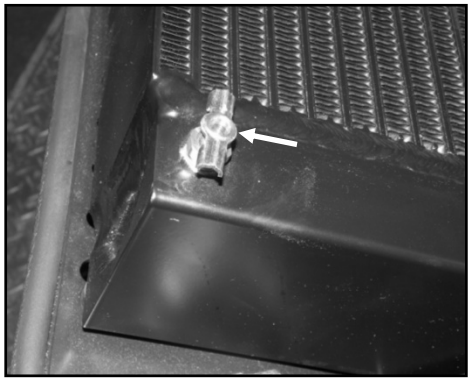


Figure 24: Air Bleed Valve Wing Nut

6. Add a 50/50 mix of water and anti-freeze through the radiator fill port until it begins to leak out of the air bleed valve.
7. Close the air bleed valve wing nut.
8. Add more radiator fluid through the fill port until the fluid reaches the overflow hole inside the filler neck.
9. Replace the radiator cap and retighten to secure.

Hydraulic System

⚠WARNING

- Always place a piece of cardboard or paper up against hydraulic components, or use a leak detection fluid to check for hydraulic fluid leaks. Keep all body parts away from leaks and/or areas that may eject hydraulic fluid. Pressurized hydraulic fluid can penetrate the skin, causing serious injuries. Seek medical attention immediately!
- Always make sure any hydraulic components being serviced are not supporting the weight of other saw components. If a particular component is under pressure when connections points are loosened, oil may spray out forcefully.

Inspect all hydraulic hoses and fittings daily for leaks. Remember to use cardboard or a piece of paper when checking for leaks and replace damaged components immediately.

Adding Fluid to the Hydraulic Lift Pump

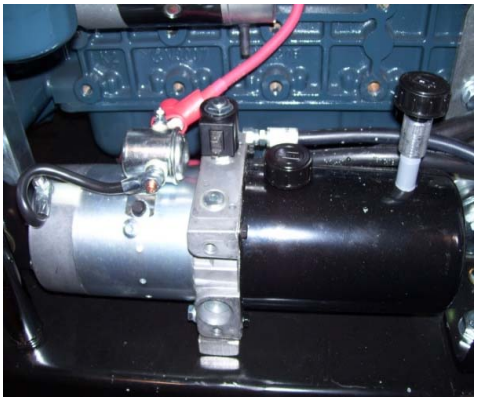


Figure 28: Hydraulic Lift Pump

Check the fluid daily and add fluid to the pump as necessary.

1. Lower the saw to level the frame.
2. Remove pump cover.
3. Remove the shorter hydraulic pump breather cap.
4. Add SAE15W-40 oil or an equivalent to just below where the fill port extends into the hydraulic pump. Do not overfill, as this will cause oil leakage through the breather cap when raising the saw.
5. Replace the breather cap and retighten to secure.

Adding Hydraulic Fluid to the Reservoir Tank

Check the hydraulic fluid daily and add fluid to the reservoir tank as necessary.

1. Lower the saw to level the engine.
2. Remove the reservoir tank cap.
3. Add SAE 15W-40 oil or equivalent to the reservoir tank fill line. DO NOT overfill as fluid will leak out from the reservoir cap.
4. Replace the cap and tighten to secure.

Figure 25: Reservoir Tank

Replacing the Hydraulic Oil Filter

Replace the hydraulic oil filter after the first 50 hours of operation, and then every 250 hours.

1. Lower the saw completely.
2. Place a drain pan under the filter.
3. Remove the filter using an appropriate tool. Dispose of the used oil and filter according to city, state, and federal regulations.
4. Wipe down the sealing surface with a clean cloth, and use clean oil to lightly oil the filter gasket.
5. Fill new filter with SAE15W-40 oil. Remove bracket to allow attachment of filter in vertical position.
6. Tighten the new filter to the filter head following the directions on the filter.
7. Inspect the seal for leaks and recheck the oil level in the reservoir.

Upper Gearbox

Clean the upper gearbox breather vent (inside breather cap) using compressed air to remove oil, dirt, and slurry every 100 hours.

Changing the Upper Gearbox Oil

Change the upper gearbox oil every 100 hours.

Figure 30: Upper Gearbox

1. Lower the saw to level the frame.
2. Place a drain pan under the gearbox drain plug (underneath gearbox, near front of box).
3. Remove the gearbox drain plug and drain the oil completely. Dispose of the used oil according to city, state, and federal regulations.
4. Replace the drain plug and retighten to secure.
5. Remove the oil fill breather cap and add Mobil 1 Synthetic Gear Lube 75W-90 oil to the upper gearbox to at least half full (view level through sight glass).
6. Replace the oil fill breather cap and retighten to secure.

Draining the Upper Gearbox Heat Sink

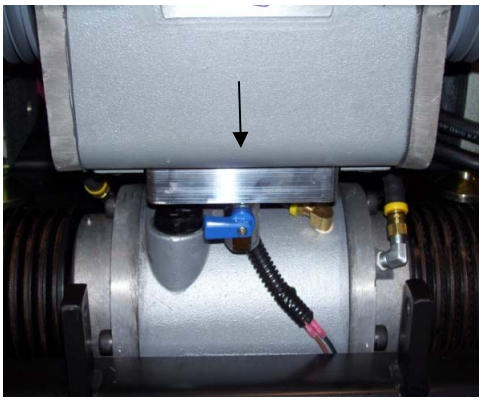


Figure 31: Upper Gearbox Heat Sink

Drain the heat sink daily; especially in freezing weather conditions.

1. Lower the saw completely.
2. Open the water drain valve on the heat sink and drain the heat sink completely.
3. Close the water drain valve.

Lower Gearbox

Clean the lower gearbox breather vent (at end of vent tube) using compressed air to remove oil, dirt, and slurry every 100 hours.

Figure 32: Lower Gearbox Breather Vent

Changing the Lower Gearbox Fluid

Change the lower gearbox fluid every 100 hours.

1. Place a drain pan under the gearbox drain plug (on back of gearbox).
2. Remove the gearbox drain plug and drain the fluid completely. Dispose of the used fluid according to city, state, and federal regulations.
3. Replace the drain plug and retighten to secure.
4. Lower saw to level frame.
5. Remove the red vinyl plug from the frame base (below gearbox) to view the fluid level from the sight glass.
6. Remove the fill cap and add Synthetic ATF fluid to the lower gearbox to at least half full (view level through sight glass).
7. Replace the fill cap and retighten to secure.
8. Replace the red vinyl plug in frame base.

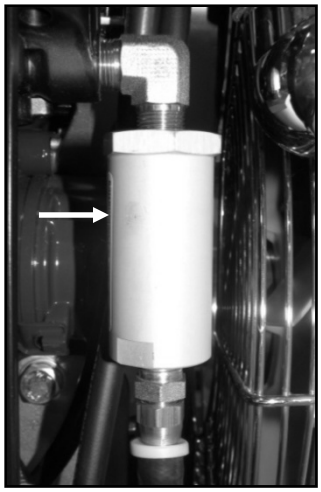


Figure 33: In-Line Oil Filter

Cleaning the In-Line Oil Suction Filter

Clean the in-line oil suction filter every 100 hours. Replace the filter when it cannot be properly cleaned or is damaged.

1. Lower the saw completely.
2. Place a drain pan underneath the filter.
3. Use a wrench to hold the hex filter cap in position. Use another wrench on the barrel flats and loosen the barrel from the cap. A very small amount of oil may drain. Dispose of the used oil according to city, state, and federal regulations.
4. Remove the spring and bronze element from the barrel. Clean the inside of the barrel and the bronze filter element using an industrial cleaning solvent. Replace the filter if damaged or not cleanable.
5. Fit the bronze filter inside the spring and place the assembly back into the filter barrel.
6. Retighten the filter barrel to the hex filter cap to secure.

Belt Sheaves

The upper and lower belt sheaves may need to be changed when changing the blade size. Refer to the CC7074 Parts List for additional information.

Removing the Belt Sheaves

1. Loosen the two engine cradle screws.
2. Loosen the nut away from the engine foot on both blade drive belt tension bolts.
3. Turn both blade drive belt tension bolts (large threaded bolt on engine foot) counterclockwise to loosen the belts.
4. Remove both sets of belts from the four sheaves.
5. Remove both setscrews from one of the sheaves.

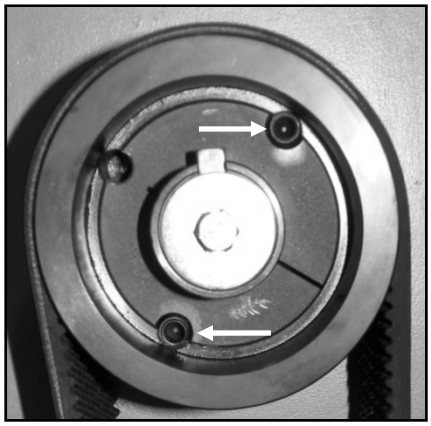


Figure 34: Sheave Setscrews

6. Place one of the removed setscrews into the third setscrew hole (in line with slot) on the bushing. Using a 1/2" impact wrench, tighten the setscrew into the hole to separate the sheave from the bushing. If the sheave and bushing will not separate, wedge a flat-head screwdriver into the slot on the bushing and tap the other end of the screwdriver with a rubber mallet to separate the sheave and bushing.
7. Remove the sheave from the bushing.
8. Repeat steps 5–7 to remove the three remaining sheaves.
9. Remove the setscrew used to separate the sheave and bushing from all four bushings.

Installing the Belt Sheaves

1. Fit the appropriate size sheave onto each bushing.
2. On one side of the saw, place a straightedge against the edge of the upper or lower sheave. Adjust either sheave to align the outside edge of both sheaves.
3. Place two setscrews into the setscrew holes (in line with each other) on both sheaves and retighten the setscrews to secure. *Note: Make sure both sheaves are properly aligned prior to securing*.
4. Repeat steps 2–3 for the second set of sheaves.
5. Turn both blade drive belt tension bolts (large threaded bolt on engine foot) clockwise equally to tighten the belts. Test the belt tension and readjust the bolts as necessary. Refer to Appendix C for additional information on belt tension settings. DO NOT exceed the manufacturer's tension settings.
6. Tighten the nut on both blade drive belt tension bolts down to the engine foot.
7. Retighten the two engine cradle screws.

Blade Drive Belts

⚠WARNING

- Turn off the engine prior to servicing the belts.
- Use extreme caution when working with belts and rotating machine parts to avoid entanglement.

⚠CAUTION

- Let the belts cool down prior to servicing them.

Inspect all belts daily for fraying, stress cracks, and/or breakage and replace immediately when damaged. Always re-tension new belts after the first four hours of use. DO NOT exceed the manufacturer's recommended belt tension settings when tensioning belts. *Note: Over-tensioning belts may reduce the life of the gearbox bearings. Under-tensioning belts may cause slippage, shorter belt life, and/or poor saw performance. Squealing belts indicate looseness*.

Tensioning/Replacing the Blade Drive Belts

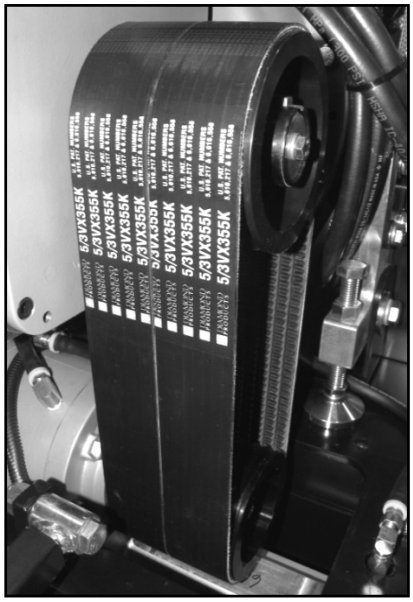


Figure 35: Blade Drive Belts

1. Test the belt tension. Refer to Appendix C for additional information on belt tension settings.
2. Loosen the two engine cradle screws. If tensioning the belts, proceed with steps 7–9. If replacing the belts, continue with steps 3–9.
3. Loosen the nut away from the engine foot on both blade drive belt tension bolts.

4. Turn both blade drive belt tension bolts (large threaded bolt on engine foot) counterclockwise to loosen the belts.

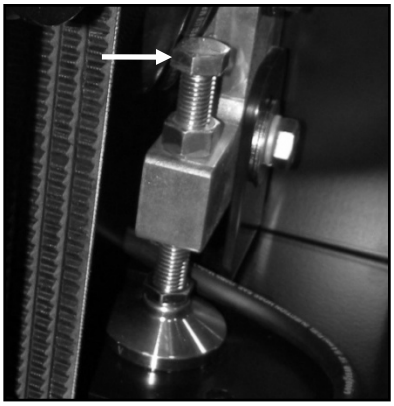


Figure 26: Belt Tension Bolt

5. Remove both sets of belts from the four sheaves.
6. Loop and align the first matched set of belts around the lower gearbox sheave and then around the upper gearbox sheave, and repeat with the second matched set of belts. Repeat the procedure for the second set of sheaves. *Note: Make sure the belts are fitted against each other, and are aligned on the sheaves*.
7. Turn both blade drive tension bolts (large threaded bolt on engine foot) clockwise equally to tighten the belts. Test the belt tension and readjust the bolts as necessary. Refer to Appendix C for additional information on belt tension settings. DO NOT exceed the manufacturer's tension settings.
8. Tighten the nut on both blade drive belt tension bolts down to the engine foot.
9. Retighten the two engine cradle screws.

In-Line Fuel Filter

Change the in-line fuel filter every 250 to 500 hours, depending on the amount of buildup in the filter.

Figure 27: In-Line Fuel Filter

1. Lower the saw completely.
2. Place a drain pan under the hoses and in-line filter.
3. Pinch the hose on both sides of the filter using an appropriate pinch-off tool for tubing.
4. Remove the hose clamp from both sides of the filter.
5. Remove the filter from the hoses. Drain any escaping fuel and dispose of the used fuel and filter according to city, state, and federal regulations.
6. Place the fuel hose coming from the fuel tank onto the end of the filter (the arrow on the filter should not point toward this hose). Push the hose tightly up against the edge of the filter and secure with the hose clamp.
7. Place the fuel hose coming from the fuel pump onto the other end of the filter (the arrow on the filter should point toward this hose). Push the hose tightly up against the edge of the filter and secure with the hose clamp.
8. Remove the pinch-off tool from the hoses and check for leaks.

Engine

⚠WARNING

- Let the engine cool down prior to servicing the saw.
- DO NOT service the saw with the engine running (unless stated otherwise).

Refer to the engine manual and manufacturer for a full engine maintenance schedule and additional engine maintenance information.

Cleaning the Engine

Clean and wipe down the engine's exterior, fans, and guards daily to prevent high operating temperatures.

Changing Engine Oil

- Refer to Engine Operators manual for oil specifications and capacities.
- Change the oil after the first 50 hours of operation, then every 500 hours afterward.
- If the annual operating hours are less than 500, change the oil every year.
- The oil filter should be changed when the oil is changed.
- Refer to Engine Manual for Oil Filter Specifications.

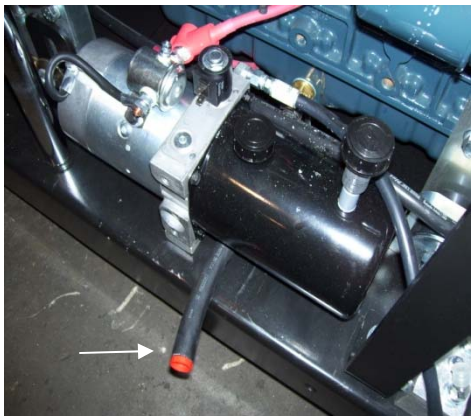


Figure 38: Oil Drain Hose

1. Remove Hydraulic lift pump cover.
2. Remove oil drain hose from behind lift pump.
3. Level saw frame and place drain pan beneath drain hose.

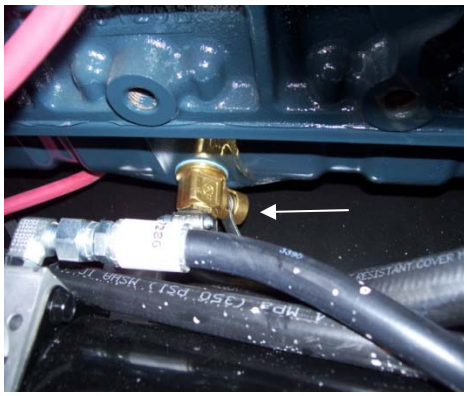


Figure 39: Oil Drain Valve

4. Remove red plastic drain plug and open drain valve on side of oil pan.
5. Drain oil completely and dispose of according to city, state and federal regulations.
6. Shut oil drain valve and replace red plastic drain plug.
7. Return oil drain hose to original position on engine side of the lift pump.
8. Replace hydraulic pump cover and retighten.

Air Cleaner

Restriction Indicator

Figure 40: Restriction Indicator

- Service the air filters when the restriction indicator turns red.
- Press the restriction indicator reset button on the top of the indicator to reset the unit after the air filters has been serviced.

Rubber Dust Ejector Boot

The rubber dust ejector boot valve ejects debris and water when operating the saw. Occasionally inspect and clean the ejector boot.

- Press inward on both sides of the ejector boot near the valve opening to release debris and water, and clean the valve opening as necessary.

Figure 41: Rubber Dust Ejector Boot

Cleaning/Replacing the Outer Primary Filter

Service the outer primary filter according to the restriction indicator service bar. Replace the filter annually. DO NOT operate the saw without the filter installed.

1. Pull out the tab on the air cleaner housing end cover.

Figure 42: End Cover Tab

2. Turn the end cover counter-clockwise to unlock and pull the cover away from the main air cleaner housing.
3. Pull the outer primary filter out of the air cleaner and inspect it for damages. Replace as necessary.
4. Move away from the saw and clean the filter from the inside out. Use dry compressed air to clean the filter (a maximum of 40 psi or 2.75 bar).
5. Inspect the inside of the air cleaner housing and the end cover for debris, and wipe them down with a damp cloth as necessary. DO NOT use compressed air to blow out the inside of the air cleaner housing. DO NOT allow dust to enter the air intake tube when cleaning or replacing parts.
6. Place the filter into the air cleaner housing (over the inner safety filter) and gently push the filter into the unit until it feels secure.

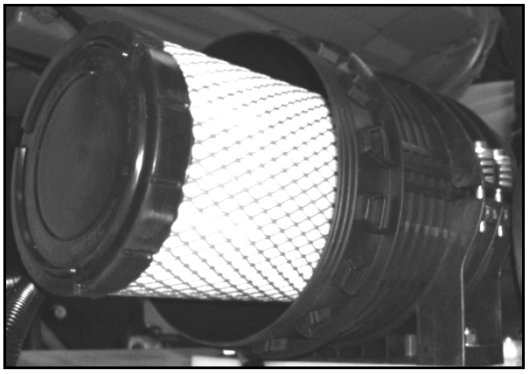


Figure 43: Outer Primary Filter

7. Place the end cover tightly up against the ridge at the end of the air cleaner housing.
8. Turn the end cover clockwise to lock the cover onto the air cleaner housing, making sure the dust ejector boot is in the vertical position.
9. Push the tab in on the air cleaner housing end cover to secure.

Replacing the Inner Safety Filter

- DO NOT clean the inner safety filter.
- Replace it after approximately one year, or if there are damages. DO NOT operate the saw without the filter installed.

1. Pull the tab out on the air cleaner housing end cover.
2. Turn the end cover counter-clockwise to unlock and pull cover away from the air cleaner housing.
3. Pull the outer primary filter and the inner safety filter out of the air cleaner housing. Inspect the outer primary filter for damages and replace as necessary.
4. Inspect the inside of the air cleaner housing and the end cover for debris, and wipe them down with a damp cloth as necessary. DO NOT use compressed air to blow out the inside of the air cleaner. DO NOT allow dust to enter the air intake tube when cleaning or replacing parts.
5. Insert a new inner safety filter into the air cleaner housing and gently push the filter into the unit until it feels secure.

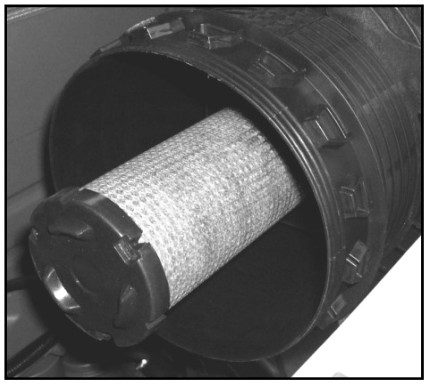


Figure 44: Inner Safety Filter

6. Place the outer primary filter into the air cleaner housing (over the inner safety filter) and gently push the filter into the unit until it feels secure.
7. Place the end cover tightly up against the ridge at the end of the air cleaner housing.
8. Turn the end cover clockwise to lock the cover onto the air cleaner housing.
9. Push the tab in on the air cleaner housing end cover to secure.

Storing

Complete the tasks listed below prior to storing the saw for longer time frames:

- Drain the water lines/hoses.
- Turn off all switches and controls.
- Lower the saw completely to remove strain on the lifting mechanism.
- Clean and wipe down the saw to remove dust, debris, and slurry from saw components (especially fans).
- Remove the battery and store in a proper location, out of reach from children.
- Refer to the engine manual for all engine and fuel recommendations prior to storing.
- Store the saw in a dry area, protected from outdoor elements and out of reach from children.

Disposal

Dispose of the saw when it's no longer repairable, and/or contains safety hazards not worth repairing or maintaining. Complete the tasks listed below when discontinuing usage:

- Drain all fluids and dispose of according to city, state, and federal regulations.
- Remove the battery and bring to a recycling facility; many battery retailers also accept old batteries.
- Transport the saw to a salvage yard or recycling facility.

References

Appendix A

Serial Tags

Record the saw's serial number below for future reference and customer service purposes.

Serial Number	

Record the engine's model and serial numbers below for future reference and customer service purposes.

Model Number	
Serial Number	

Appendix B

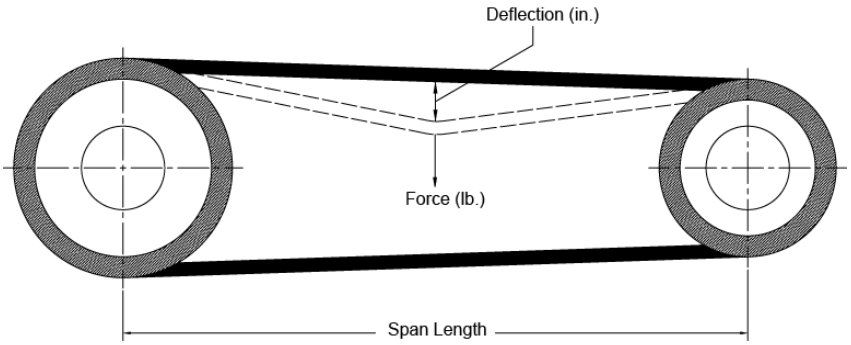
Daily Maintenance Task Chart

Table 3: Daily Maintenance Task Chart								
Date								
		✓	✓	✓	✓	✓	✓	✓
1.	Inspect the saw for damages and repair.							
2.	Tighten loose nuts, screws, and bolts.							
3.	Check all fluid levels (fuel, engine oil, hydraulic fluid, radiator fluid, upper and lower gearbox oil) and fill as necessary.							
4.	Wipe down and clean all saw components to remove dust, debris, and slurry (especially from fans).							
5.	Inspect all belts for tension and wear. Replace or tension as necessary.							
6.	Clean the air cleaner (see engine manual).							
7.	Check and clean the water filter strainer.							
8.	Clean the radiator and wipe down the cooling fan.							
9.	Drain the heat sink.							
10.	Look for fluid leaks and check all hoses. Repair all damaged components.							
11.	Refer to the engine manual and manufacturer for daily engine care and routine maintenance tasks.							

Appendix C

Belt Tension Settings

Table 4: Belt Tension Settings					
Model	**Engine Type**	**Belt**	**Belt No.**	**Deflection Force**	**Deflection**
CC7074	Kubota V3307-DI-T-E3-B	Blade Drive Belts	5/3VX375	30 lb	.17”
			5/3VX355		



Deflection (in.) should be equal to number of inches listed in chart above when deflection force (lb) listed in chart above is applied to middle of belt using tension gauge.

Appendix D

Troubleshooting

Table 5: Troubleshooting		
Symptom	**Problem**	**Solution**
1. Engine will not start.	Out of fuel?	Fill fuel tank.
	Emergency stop button down?	Pull up emergency stop button.
	Fuel lines clogged?	Unclog or replace fuel lines.
	Air in fuel lines?	Bleed fuel lines.
	Worn-out battery?	Charge or replace battery.
	Faulty battery connection?	Inspect, clean, and tighten battery cables.
	Engine malfunction?	Refer to engine manual.
27. Saw will not raise.	Defective solenoid start switch?	Replace solenoid on hydraulic pump unit.
	Worn-out battery?	Charge or replace battery.
	Defective raise button?	Replace raise button.
28. Saw will not lower.	Debris in lowering valve stem?	Inspect and clean stem.
	Worn-out battery?	Charge or replace battery.
	Defective valve coil?	Check for magnetism of valve stem when activated.
	Defective lowering button?	Replace lowering button.
29. Saw will not completely lower.	Depth stop set?	Reset depth stop.
	Skid plates in wrong set of holes?	Use correct set of holes on skid plate.
	Maximum cutting depth set wrong?	Adjust maximum cutting depth bolt.
30. Saw lowers too slow/too fast.	Improper lowering speed setting?	Adjust blade lowering speed valve.
31. Blade does not cut straight.	Drive alignment off?	Adjust rear axle adjustment bolt.
	Excessive force used when sawing?	Reduce forward speed. DO NOT twist blade from side-to-side.
	Wrong blade?	Contact dealer/manufacturer of blade.
32. Short belt life.	Loose belts causing slippage?	Check belt tension.
	Sheaves misaligned?	Use straightedge to check blade shaft sheave alignment.
	Worn sheave grooves?	Check for groove wear and replace sheaves when necessary.
	Mismatched belts?	Replace with matched set of belts. DO NOT use old and new belts together.

Appendix E

Additional Resources

1. Kubota (**www.kubota.com**)
   - *Operator's Manual V2607-DI-T-E3-B, V3307-DI-T-E3-B; Japan*

33. Diamond Products (**www.diamondproducts.com**)
   - *CC7074 Concrete Saw Parts List; Ohio, 2010*
   - *A Guide for Professional Concrete Cutters*
   - *Training Manual – Introduction to Diamond Blades, Bits, and Equipment*
   - *Diamond Products' Equipment Catalog*
   - *Diamond Products' Website* (**www.diamondproducts.com**)

34. Concrete Sawing and Drilling Association (**www.csda.org**)
   - The CSDA has many helpful concrete cutting publications available to members and non-members.

35. Association of Equipment Manufacturers (**www.aem.org**)
   - The AEM has a variety of safety and technical manuals available for various types of equipment, along with a list of industry-standardized safety symbols.

36. Occupational Safety & Health Administration (OSHA) (**www.osha.gov/**)
   - OSHA provides information on work-related safety and health practices.

37. The National Institute for Occupational Safety and Health (NIOSH) (**www.cdc.gov/NIOSH/**)
   - NIOSH provides information on work-related safety and health practices.

Notes:

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